

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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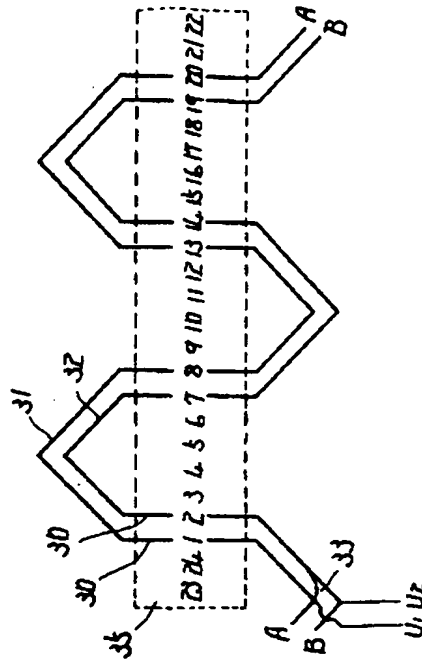
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TITLE : SINGLE-LAYER POLYPHASE WAVE WINDING



ABSTRACT : PURPOSE: To facilitate the insertion of a coil into the slot of a core and the prevent the damage of an insulator at the inserting time by arranging the coils at the special pitch in the slot, thereby eliminating the crossing of the coils.

CONSTITUTION: The first wave coil 31 of the same phase coil 30 is then filled in a slot isolated at a pitch of the slot of  $a+(q-1)$  with the slot 1 of the start of the coil as a reference, where  $a$  represents the number of slots per one pole and  $q$  represents the number of slots per one pole and one phase (in the drawing,  $a=6$ ,  $q=2$ ). Then, the coil is filled in the slot isolated at the pitch of the slot of  $a-(q-1)$  from the slot, and is then sequentially filled in the slot isolated at the pitch of the slot of  $a+(q-1)$  and  $a-(q-1)$ . This is repeated until the coil is returned to the slot of the reference, and the coil is thus arranged. Subsequently, the second wave coil 32 of the same phase is displaced by one slot so as not to cross the first wave coil 31, and the  $q$ -th wave coil is sequentially arranged in the slot displaced by one slot so as not to cross the  $(q-1)$ th wave coul in the same manner.

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